IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of: Atty. Docket No.: 003797.00621

Randall E. AULL et al.

Serial No.: TBA Group Art Unit: TBA

Filed: September 16, 2003 Examiner: TBA

For: METHOD FOR PROCESSING DATA QUANTIFYING FORCE APPLIED

TO ONE OR MORE KEYS OF A COMPUTER KEYBOARD

INFORMATION DISCLOSURE STATEMENT

Commissioner of Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Pursuant to their duty of good faith and candor as set forth in 37 C.F.R. §§ 1.56(a), 1.97 and 1.98 et seq., Applicants submit herewith the attached Form PTO/SB/08A. Applicants have submitted each of the references cited on attached Form PTO/SB/08A with this paper. Applicants respectfully request that the Examiner consider and enter all the documents cited on the enclosed Form PTO/SB/08A into the file of the above-identified application. Applicants also request an indication of the same by return of the Form PTO/SB/08A being initialed and dated by the Examiner.

No fees are believed due to ensure consideration of the attached documents by the Examiner. However, if any fees are required or an overpayment of fees made, the Commissioner is hereby authorized to debit or credit our Deposit Account No. 19-0733, as necessary.

Respectfully submitted,

Date: September 16, 2003 By:

H. Wayne Porter

Registration No. 42,084

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Attachments:

Form PTO/SB/08A References Cited on Form PTO/SB/08A U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

003797.00621

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Attorney Docket Number

of 2

Sheet

Examiner Initials *		Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	Cite No. ¹	Number - Kind Code ² (if known)			
		US-3,806,471	04/23/1974	Mitchell	
		US- 4,296,406	10/20/1981	Pearson	
		US- 4,314,227	02/02/1982	Eventoff	
		US- 4,489,302	12/18/1984	Eventoff	
		US- 5,008,497	04/16/1991	Asher	
		US- 5,063,376	11/05/1991	Chang	
		US- 5,231,386	07/27/1993	Brandenburg et al.	
		US- 5,302,936	04/12/1994	Yaniger	
		US- 5,515,044	05/07/1996	Glatt	
		US- 5,999,084	12/07/1999	Armstrong	
		US- 6,102,802	08/15/2000	Armstrong	
		US- 6,135,886	10/24/2000	Armstrong	
		US- 6,204,839 B1	03/20/2001	Mato, Jr.	
		US- 6,343,991 B1	02/05/2002	Armstrong	
		US- 6,347,997 B1	02/19/2002	Armstrong	
		US- 2002/0104369 A1	08/08/2002	Baker et al.	
		US-			

		FOREIGN PA	TENT DOCU	MENTS				
Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ - Number ⁴ - Kind Code ⁵ (<i>if known</i>)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶		
		GB 1 255 761	12/01/1971					
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		OTHER PRIOR ART NON F	PATENT LITE	RATURE DOCUM	ENTS			
Examiner Cite Initials * No.		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.						
		Eric Gray, "The Synclavier Digital Audio Sys	stem: Recent Dev Digital, March		-Production," New England			
	R.D. Harrod, "Touch-Pressure Sensitive Frequency-Modulated Keyboard," IBM Technical Disclosure Bulletin, Vol. 20, No. 10, pp. 4039-4040, March 1978.							
Joyce et al., "Identity Authentication Based on Keystroke Latencies," Communications of the ACM, Vol. 33, No. 2 pp. 168-176, Feb. 1990.								
Lieberman et al., "Casio CZ-1 Digital Synthesizer: A User's Report," Computer Music Journal, pp. 1987.				Journal, pp. 86-88, Spring				
	Popovich et al., "Gradient formation in a micro-processor-based HPLC system," American Laboratory, pp. 136- 139, May 1981.							
	H. Tang, "A multilevel input system with force-sensitive elements," Int. J. Human-Computer Studies, 2001 (54), pp. 495-507. April 2001							
Examiner Signature			Date Consid	ered				

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_				CLOSURE	Filing Date	September 16, 2003	
STATEMENT BY APPLICANT			PPLICANT	First Named Inventor	Randall E. AULL et al.		
					Group Art Unit	ТВА	
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T.	Sheet	2	of	2	Attorney Docket Number	003797.00621	フ

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